## AMENDMENTS TO THE CLAIMS

The listing of claims below replace all prior versions, and listings, of claims:

)	1	1. (Currently Amended) A method of performing a transaction in a database			
	2	system, comprising:			
	3	receiving a transaction to be performed, wherein the transaction is			
	4	processed by a plurality of access modules; and			
	5	performing a flush of a transaction log in from volatile storage to non-			
	6	volatile storage by each access module before an end transaction procedure.			
	1	2. (Previously Presented) The method of claim 1, further comprising issuing			
	2	a request to flush the transaction log with a message sent to each access module for			
	3	performing a last step of the transaction, the last step performed prior to the end			
	4	transaction procedure.			
	1	3. (Previously Presented) The method of claim 2, further comprising			
	2	performing the flush of the transaction log in a data access step prior to the end			
	3	transaction procedure to avoid performance of a transaction log flush in the end			
	4	transaction procedure.			
	1	4. (Currently Amended) The method of claim 2, further comprising			
determining that the last step is being performed by		determining that the last step is being performed by all of the plurality of access modules			
	3	involved in the transaction.			
	1	5. (Original) The method of claim 1, further comprising determining if the			
	2	transaction log has been flushed before performing the end transaction procedure.			
	1	6. (Original) The method of claim 5, further comprising avoiding			
	2	performance of a transaction log flush in the end transaction procedure if the transaction			
	3	log has been flushed.			

cluster.

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	1	7.	(Original) The method of claim 1, further comprising:	
	2		identifying the transaction as an implicit transaction.	
`	1	8.	(Original)_The method of claim 1, further comprising:	
	2		performing the end transaction procedure, which follows execution of the	
	3	transaction.		
	1	9.	(Original) The method of claim 8, performing the end transaction	
	2	procedure comprising:		
	3		skipping broadcast of a directive indicating commencement of the end	
	4	transaction procedure to the plurality of access modules.		
	1	10.	(Original) A method of performing an end transaction procedure in a	
	2	database system, comprising:		
	3		a first access module in the database system writing an end transaction	
	4	indication to a first transaction log portion, the first access module being part of a		
	5	cluster of access modules; and		
	6		the first access module sending an end transaction directive to a	
	7	fallback module associated with the first access module, the fallback module being		
	8	part of the clu	ster.	
	1	11.	(Original) The method of claim 10, wherein the first access module sends	
	2	the end transa	ction directive to the fallback module but not to other access modules in the	
	3	cluster.	·	
	1	12.	(Original) The method of claim 10, wherein sending the end transaction	
	2	directive com	prises sending an end transaction-part one directive.	
	1	13.	(Original) The method of claim 12, further comprising the first access	

module broadcasting an end transaction-part two directive to all access modules in the

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14.	(Original) The method of claim 10, further comprising the fallback
module writi	ng an end transaction indication to a second transaction log portion.

- 1 15. (Currently Amended) The method of claim 10, further comprising the first access module flushing the first transaction log portion from volatile storage to non-volatile storage.
  - 16. (Original) The method of claim 10, further comprising the first access module flushing the first transaction log portions but the other access modules in the cluster not flushing their respective transaction log portions.
- (Currently Amended) A database system comprising: 1 17. a plurality of storage media, the storage media comprising persistent 2 3 storage; and 4 volatile storage; and a plurality of access modules, wherein each access module is coupled to 5 6 one of the plurality of storage media; and each of the access modules being adapted to flush a transaction log from 7 the volatile storage to the persistent storage before performing an end transaction 8 9 procedure.
  - 18. (Original) The database system of claim 17, further comprising a controller adapted to determine if each access module has flushed the transaction log maintained by the access module.
  - 19. (Original) The database system of claim 18, wherein the controller is adapted to skip sending a directive to perform a transaction log flush if the controller determines that each access module has flushed the transaction log before the end transaction procedure.

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20.	(Currently Amended) The database system of claim 17, further comprising
a controller	adapted to provide a flush directive with a message to each of the access
modules to	perform a last step of the transaction before the end transaction procedure.

- (Currently Amended) An article comprising a medium storing instructions 1 21. 2 for enabling a processor-based system to: 3 receive a transaction to be performed, wherein the transaction is processed by a plurality of access modules; 4 determine that a last step of the transaction involves the plurality of access 5 modules, wherein the last step is performed before an end transaction procedure; and 6 7 flush a transaction log from volatile storage to a non-volatile storage while the last step is performed by the plurality of access modules. 8
  - 22. (Currently Amended) The article of claim 21, further storing instructions for enabling the processor-based system to:

    perform [[an]] the end transaction procedure, wherein the end transaction procedure follows execution of the last step of the transaction.
  - 23. (Currently Amended) The article of claim 22, further storing instructions for enabling a processor-based system to:

    avoid broadcast of a directive indicating commencement of the end transaction procedure to the plurality of access modules.
- 24. (Currently Amended) A method of performing a transaction in a database system, comprising:

  receiving a transaction to be performed on plural access modules in the database system;

  maintaining a log in volatile storage to track operations performed in the transaction; and
  - writing the log to persistent storage before start of an end transaction procedure.

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storage comp	ses flushing the log.			
26.	(Original) The method of claim 24, wherein maintaining the log comprise	es		
maintaining a	ransaction log.			
27.	(Original) The method of claim 24, further comprising performing the en	d		
transaction procedure, the end transaction procedure comprising writing an end				
transaction indication into the log.				
28.	(Currently Amended) A database system comprising:			
	storage media comprising persistent storage;			
	volatile storage;			
	access modules coupled to the storage media; and			
	a parsing engine coupled to the access modules, the parsing engine			
adapted to pe	form one of:			
	(a) providing a directive with a message to perform a last step	)		
of a transacti	n and communicating the directive to the access modules, each access			
module respo	sive to the directive to perform a transaction log flush from the volatile			
storage to the	persistent storage before performance of an end transaction procedure; and	d		
	(b) determining if each of the access modules has performed a			
transaction lo	g flush before start of the end transaction procedure;			
	the parsing engine adapted to avoid sending a broadcast directive to the			
• • •				
procedure.				
	26. maintaining a to 27. transaction protransaction ind 28.  adapted to perform of a transaction module responsatorage to the performance of the p	27. (Original) The method of claim 24, further comprising performing the entransaction procedure, the end transaction procedure comprising writing an end transaction indication into the log.  28. (Currently Amended) A database system comprising: storage media comprising persistent storage; volatile storage; access modules coupled to the storage media; and a parsing engine coupled to the access modules, the parsing engine adapted to perform one of:  (a) providing a directive with a message to perform a last step of a transaction and communicating the directive to the access modules, each access module responsive to the directive to perform a transaction log flush from the volatile storage to the persistent storage before performance of an end transaction procedure; and (b) determining if each of the access modules has performed transaction log flush before start of the end transaction procedure; the parsing engine adapted to avoid sending a broadcast directive to the access modules to cause performance of a transaction log flush during the end transaction		

(Original) The method of claim 24, wherein writing the log to persistent

- 29. (Previously Presented) The method of claim 1, wherein the transaction comprises plural steps, the method further comprising:
- performing the plural steps prior to performing the end transaction

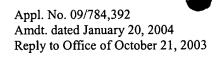
  procedure, and

  wherein performing the flush of the transaction log comprises performing

the flush of the transaction log in one of the plural steps.

- 30. (Previously Presented) The method of claim 29, wherein performing the plural steps comprises performing, in each of the plural steps, access of relational table data stored in the database system.
- 31. (Previously Presented) The method of claim 30, wherein performing the flush of the transaction log in one of the plural steps comprises performing the flush of the transaction log in a last one of the plural steps.
  - 32. (Previously Presented) The method of claim 31, further comprising each access module adding a first entry to the transaction log to redo the transaction by the access module in case of system failure.
  - 33. (Previously Presented) The method of claim 4, wherein performing the flush of the transaction is prior to the end transaction procedure if the last step is performed by all of the plurality of access modules, the method further comprising:

    performing the flush of the transaction log in the end transaction procedure if the last step is not performed by all of the plurality of access modules.
  - 34. (Previously Presented) The database system of claim 17, wherein the access modules to perform a transaction comprising plural steps, one or more of the access modules adapted to perform the plural steps prior to the end transaction procedure, and the access modules adapted to perform the flush of the transaction log in one of the plural steps.





and

- 35. (Previously Presented) The database system of claim 34, wherein the one of the plural steps comprises a last one of the steps.
- 36. (Previously Presented) The database system of claim 35, wherein the transaction log comprises a first entry associated with each access module to enable a redo of the transaction in case of system failure.
  - 37. (Previously Presented) The database system of claim 36, wherein the transaction log further comprises a second entry associated with each access module to enable an undo of the transaction.
    - 38. (Previously Presented) The database system of claim 34, further comprising a controller to determine whether a last one of the steps involves all the access modules, and in response to determining that the last one of the steps involves all the access modules, the controller to send a directive to all the access modules to perform the flush of the transaction log in the last one of the steps.
    - 39. (Previously Presented) The database system of claim 38, in response to determining that the last step does not involve all access modules, the controller to send a directive to perform the flush of the transaction log in the end transaction procedure.
- 1 40. (Previously Presented) The article of claim 21, wherein the transaction 2 comprises plural steps, the article further storing instructions for enabling a processor-3 based system to:
- 4 perform the plural steps prior to performing the end transaction procedure,
- wherein performing the flush of the transaction log comprises performing
  the flush of the transaction log in one of the plural steps.

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- 41. (Previously Presented) The article of claim 40, wherein performing the plural steps comprises performing, in each of the plural steps, access of relational table data stored in the database system.
- 42. (Previously Presented) The article of claim 41, wherein performing the flush of the transaction log in one of the plural steps comprises performing the flush of the transaction log in a last one of the plural steps.
  - 43. (Previously Presented) The article of claim 42, further storing instructions for enabling a processor-based system to cause each access module to add a first entry to the transaction log to redo the transaction by the access module in case of system failure.